CLAIMS

1. No-frost refrigeration device comprising at least one storage compartment (1), an evaporator (5) which is alternately activated and deactivated and which is located in a chamber (8) that is separated from the storage compartment (8), and a fan (9) for circulating air between the storage compartment (1) and the chamber (8) of the evaporator (5), characterised in that an average circulation power of the fan (5) during an activation phase of the evaporator (5) is made variable.

2. The no-frost refrigeration device according to claim 1, characterised in that in the activated phase of the evaporator (5) the fan (9) can be switched off temporarily.

3. The no-frost refrigeration device according to claim 2, characterised in that a control circuit (10) for controlling the operation of the evaporator (5) and the fan (9) is set up to intermittently operate the fan (9) when the evaporator (5) is activated.

4. The no-frost refrigeration device according to claim 3, characterised by a selector switch on which a duty cycle can be set for the intermittent operation of the fan (9).

5. The no-frost refrigeration device according to claim 3, characterised in that the control circuit (10) is coupled to at least one air conditioning sensor (13) and regulates the duty cycle as a function of at least one air conditioning parameter recorded by the sensor (13).

6. The no-frost refrigeration device according to claim 1, characterised in that in the activation phase of the

evaporator (5), the fan (9) can be set to different non-zero speeds.

7. The no-frost refrigeration device according to claim 6, characterised in that a control circuit (10) for controlling the operation of the evaporator (5) and the fan (9) is set up to operate the fan at one of a plurality of selectable non-zero speeds when the evaporator (5) is activated.

8. The no-frost refrigeration device according to claim 7, characterised by a selector switch on which a speed for operation of the fan can be set.

9. The no-frost refrigeration device according to claim 7, characterised in that the control circuit (10) is coupled to at least one air conditioning sensor (13) and regulates the speed using an air conditioning parameter recorded by the sensor (13).

10. A method for operating a refrigeration device according to one of the preceding claims, comprising the steps:

a) estimating a moisture value in the storage compartment (1);
b) selecting a circulating power for the fan as a function of the estimated moisture value;
c) operating the fan at the selected circulating power.

11. The method according to claim 10, characterised in that the circulating power is selected to be lower, the higher is the estimated moisture value.